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Reviewer: Anne Corrigan

Timestamp: [year=2010; month=9; day=24; hr=13; min=40; sec=31; ms=641;]

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Application No: 10582654 Version No: 3.0

Input Set:**Output Set:**

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Finished: 2010-09-21 15:38:34.678
Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 39 ms
Total Warnings: 53
Total Errors: 0
No. of SeqIDs Defined: 53
Actual SeqID Count: 53

Error code	Error Description
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W 213	Artificial or Unknown found in <213> in SEQ ID (2)
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W 213	Artificial or Unknown found in <213> in SEQ ID (4)
W 213	Artificial or Unknown found in <213> in SEQ ID (5)
W 213	Artificial or Unknown found in <213> in SEQ ID (6)
W 213	Artificial or Unknown found in <213> in SEQ ID (7)
W 213	Artificial or Unknown found in <213> in SEQ ID (8)
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W 213	Artificial or Unknown found in <213> in SEQ ID (17)
W 213	Artificial or Unknown found in <213> in SEQ ID (18)
W 213	Artificial or Unknown found in <213> in SEQ ID (19)
W 213	Artificial or Unknown found in <213> in SEQ ID (20)

Input Set:

Output Set:

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Elapsed: 0 hr(s) 0 min(s) 3 sec(s) 39 ms
Total Warnings: 53
Total Errors: 0
No. of SeqIDs Defined: 53
Actual SeqID Count: 53

Error code

Error Description

This error has occurred more than 20 times, will not be displayed

SEQUENCE LISTING

<110> Ono et al.

<120> Modified antibodies recognizing receptor trimers or higher multimers

<130> 75996-01

<140> 10582654

<141> 2010-09-21

<150> PCT/JP2004/018507

<151> 2004-12-10

<150> JP 2003-415735

<151> 2003-12-12

<160> 53

<170> PatentIn version 3.1

<210> 1

<211> 797

<212> DNA

<213> Artificial

<220>

<223> An artificially synthesized nucleotide sequence

<400> 1

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cgccaggctc cagggaaggg gctggagtgg gtctcagcta ttagtggttag tggtagtagc	240
agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac	300
acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg	360
aaagagagca gtggctgggt cggggccttt gactactggg gccagggaac cctggtcacc	420
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taccagcaga aaccagatca gtctccaaag ctctcatca agtatgcttc ccagtccttc	600
tcaggggtcc cctcgagggt cagtggcagt ggatctggga cagatttcac cctcaccatc	660
aatagcctgg aagctgaaga tgctgcagcg tattactgtc atcagagtag tagtttaccg	720
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<210> 2

<211> 256

<212> PRT

<213> Artificial

<220>

<223> An artificially synthesized peptide sequence

<400> 2

Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15

Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Gly Glu Ile Val
130 135 140

Leu Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val
145 150 155 160

Thr Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp
165 170 175

Tyr Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala
180 185 190

Ser Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser
195 200 205

Gly Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala
210 215 220

Ala Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly
225 230 235 240

Gln Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
245 250 255

<210> 3
<211> 794
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

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cgccaggctc caggggaagg gctggagtgg gtctcagcta ttagtggttag tggtagtagc 240
agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300
acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360
aaagagagca gtggctgggt cggggccttt gactactggg gccaggggaa cctgggtcacc 420
gtctcctcag gtgaaattgt gctgactcag tctccagact ttcagtctgt gactccaaag 480
gagaaagtca ccatcacctg ccggggccagt cagagcattg gtagtagctt aactgggtac 540
cagcagaaac cagatcagtc tccaaagctc ctcatcaagt atgcttccca gtccttctca 600
ggggtcccct cgaggttcag tggcagtgga tctgggacag atttcaccct caccatcaat 660
agcctggaag ctgaagatgc tgcagcgtat tactgtcatc agagtagtag ttaccgatc 720
accttcgggc aagggacacg actggagatt aaagactaca aggatgacga cgataagtga 780
taagcggccg caat 794

<210> 4
<211> 255
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 4
Met Glu Phe Gly Leu Ser Trp Leu Phe Leu Val Ala Ile Leu Lys Gly
1 5 10 15
Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110

Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Gly Glu Ile Val Leu
130 135 140

Thr Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr
145 150 155 160

Ile Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr
165 170 175

Gln Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser
180 185 190

Gln Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly
195 200 205

Thr Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala
210 215 220

Ala Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly Gln
225 230 235 240

Gly Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Asp Lys
245 250 255

<210> 5
<211> 791
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

<400> 5
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ctgagactct cctgtgcagc ctctggattc accttagca gctatgccat gagctgggtc 180

cgccaggctc caggggaaggg gctggagtgg gtctcagcta ttagtggttag tggtggtagc 240
agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300
acgctgtatc tgcaaataaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360
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gtctcctcag aaattgtgct gactcagtct ccagactttc agtctgtgac tccaaaggag 480
aaagtcacca tcacctgccg ggccagtcag agcattggta gtagcttaca ctgggtaccag 540
cagaaaccag atcagtctcc aaagctcctc atcaagtatg cttcccagtc cttctcaggg 600
gtcccctcga ggttcagtgg cagtggatct gggacagatt tcaccctcac catcaatagc 660
ctggaagctg aagatgctgc agcgtattac tgtcatcaga gtagtagttt accgatcacc 720
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<210> 6
<211> 254
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

<400> 6
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1 5 10 15
Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30
Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45
Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60
Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80
Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95
Thr Leu Tyr Leu Gln Met Asn Ser Leu Arg Ala Glu Asp Thr Ala Val
100 105 110
Tyr Tyr Cys Ala Lys Glu Ser Ser Gly Trp Phe Gly Ala Phe Asp Tyr
115 120 125

Trp Gly Gln Gly Thr Leu Val Thr Val Ser Ser Glu Ile Val Leu Thr
130 135 140

Gln Ser Pro Asp Phe Gln Ser Val Thr Pro Lys Glu Lys Val Thr Ile
145 150 155 160

Thr Cys Arg Ala Ser Gln Ser Ile Gly Ser Ser Leu His Trp Tyr Gln
165 170 175

Gln Lys Pro Asp Gln Ser Pro Lys Leu Leu Ile Lys Tyr Ala Ser Gln
180 185 190

Ser Phe Ser Gly Val Pro Ser Arg Phe Ser Gly Ser Gly Ser Gly Thr
195 200 205

Asp Phe Thr Leu Thr Ile Asn Ser Leu Glu Ala Glu Asp Ala Ala Ala
210 215 220

Tyr Tyr Cys His Gln Ser Ser Ser Leu Pro Ile Thr Phe Gly Gln Gly
225 230 235 240

Thr Arg Leu Glu Ile Lys Asp Tyr Lys Asp Asp Asp Lys
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<210> 7
<211> 1538
<212> DNA
<213> Artificial

<220>
<223> An artificially synthesized nucleotide sequence

<400> 7

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ctgagactct cctgtgcagc ctctggattc acctttagca gctatgccat gagctgggtc 180

cgccaggctc cagggaaggg gctggagtgg gtctcagcta ttagtggttag tggtagtagc 240

agatactacg cagactccgt gaagggccgg ttcaccatct ccagagacaa ttccaagaac 300

acgctgtatc tgcaaatgaa cagcctgaga gccgaggaca cggccgtata ttactgtgcg 360

aaagagagca gtggctggtt cggggccttt gactactggg gccagggaac cctgggtcacc 420

gtctcctcag gtggaggcgg atcggaatt gtgctgactc agtctccaga ctttcagtct 480

gtgactccaa aggagaaagt caccatcacc tgccggggcca gtcagagcat tggtagtagc 540

ttacactggg accagcagaa accagatcag tctccaaagc tcctcatcaa gtatgcttcc 600

cagtccttct caggggtccc ctcgaggttc agtggcagtg gatctgggac agatttcacc 660

ctcaccatca atagcctgga agctgaagat gctgcagcgt attactgtca tcagagtagt 720

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agtgggtggtg gcagatacta cgcagactcc gtgaagggcc gggtcaccat ctccagagac 1020
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tattactgtg cgaaagagag cagtggctgg ttcggggcct ttgactactg gggccaggga 1140
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gactttcagt ctgtgactcc aaaggagaaa gtcaccatca cctgccgggc cagtcagagc 1260
attggtagta gcttacactg gtaccagcag aaaccagatc agtctccaaa gctcctcatc 1320
aagtatgctt ccagtcctt ctcaggggtc ccctcgaggt tcagtggcag tggatctggg 1380
acagatttca ccctcaccat caatagcctg gaagctgaag atgctgcagc gtattactgt 1440
catcagagta gtagtttacc gatcaccttc ggccaaggga cacgactgga gattaaagac 1500
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<210> 8
<211> 503
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized peptide sequence

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Val Gln Cys Glu Val Gln Leu Leu Glu Ser Gly Gly Gly Leu Val Gln
20 25 30

Pro Gly Arg Ser Leu Arg Leu Ser Cys Ala Ala Ser Gly Phe Thr Phe
35 40 45

Ser Ser Tyr Ala Met Ser Trp Val Arg Gln Ala Pro Gly Lys Gly Leu
50 55 60

Glu Trp Val Ser Ala Ile Ser Gly Ser Gly Gly Ser Arg Tyr Tyr Ala
65 70 75 80

Asp Ser Val Lys Gly Arg Phe Thr Ile Ser Arg Asp Asn Ser Lys Asn
85 90 95

Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu	Asp	Thr	Ala	Val		
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Tyr	Tyr	Cys	Ala	Lys	Glu	Ser	Ser	Gly	Trp	Phe	Gly	Ala	Phe	Asp	Tyr		
		115					120					125					
Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly	Gly	Gly	Gly	Ser		
	130					135					140						
Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Asp	Phe	Gln	Ser	Val	Thr	Pro	Lys		
145					150					155					160		
Glu	Lys	Val	Thr	Ile	Thr	Cys	Arg	Ala	Ser	Gln	Ser	Ile	Gly	Ser	Ser		
				165				170						175			
Leu	His	Trp	Tyr	Gln	Gln	Lys	Pro	Asp	Gln	Ser	Pro	Lys	Leu	Leu	Ile		
			180					185					190				
Lys	Tyr	Ala	Ser	Gln	Ser	Phe	Ser	Gly	Val	Pro	Ser	Arg	Phe	Ser	Gly		
		195					200					205					
Ser	Gly	Ser	Gly	Thr	Asp	Phe	Thr	Leu	Thr	Ile	Asn	Ser	Leu	Glu	Ala		
	210					215					220						
Glu	Asp	Ala	Ala	Ala	Tyr	Tyr	Cys	His	Gln	Ser	Ser	Ser	Leu	Pro	Ile		
225					230					235					240		
Thr	Phe	Gly	Gln	Gly	Thr	Arg	Leu	Glu	Ile	Lys	Arg	Ala	Asp	Ala	Ala		
				245					250					255			
Ala	Ala	Gly	Gly	Pro	Gly	Ser	Glu	Val	Gln	Leu	Leu	Glu	Ser	Gly	Gly		
			260					265					270				
Gly	Leu	Val	Gln	Pro	Gly	Arg	Ser	Leu	Arg	Leu	Ser	Cys	Ala	Ala	Ser		
		275					280					285					
Gly	Phe	Thr	Phe	Ser	Ser	Tyr	Ala	Met	Ser	Trp	Val	Arg	Gln	Ala	Pro		
	290					295					300						
Gly	Lys	Gly	Leu	Glu	Trp	Val	Ser	Ala	Ile	Ser	Gly	Ser	Gly	Gly	Ser		
305					310					315					320		
Arg	Tyr	Tyr	Ala	Asp	Ser	Val	Lys	Gly	Arg	Phe	Thr	Ile	Ser	Arg	Asp		
				325					330					335			
Asn	Ser	Lys	Asn	Thr	Leu	Tyr	Leu	Gln	Met	Asn	Ser	Leu	Arg	Ala	Glu		
			340					345					350				
Asp	Thr	Ala	Val	Tyr	Tyr	Cys	Ala	Lys	Glu	Ser	Ser	Gly	Trp	Phe	Gly		
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Ala	Phe	Asp	Tyr	Trp	Gly	Gln	Gly	Thr	Leu	Val	Thr	Val	Ser	Ser	Gly		
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Gly	Gly	Gly	Ser	Glu	Ile	Val	Leu	Thr	Gln	Ser	Pro	Asp	Phe	Gln	Ser		
385					390					395					400		

Val Thr Pro Lys Glu Lys Val Thr Ile Thr Cys Arg Ala Ser Gln Ser
405 410 415

Ile Gly Ser Ser Leu His Trp Tyr Gln Gln Lys Pro Asp Gln Ser Pro
420 425 430

Lys Leu Leu Ile Lys Tyr Ala Ser Gln Ser Phe Ser Gly Val Pro Ser
435 440 445

Arg Phe Ser Gly Ser Gly Ser Gly Thr Asp Phe Thr Leu Thr Ile Asn
450 455 460

Ser Leu Glu Ala Glu Asp Ala Ala Ala Tyr Tyr Cys His Gln Ser Ser
465 470 475 480

Ser Leu Pro Ile Thr Phe Gly Gln Gly Thr Arg Leu Glu Ile Lys Asp
485 490 495

Tyr Lys Asp Asp Asp Asp Lys
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<210> 9
<211> 15
<212> DNA
<213> Artificial

<220>
<223> An artificial sequence encoding linker sequence

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<210> 10
<211> 5
<212> PRT
<213> Artificial

<220>
<223> An artificially synthesized linker sequence

<400> 10
Gly Gly Gly Gly Ser
1 5

<210> 11
<211> 24
<212> DNA
<213> Artificial

<220>
<223> An artificial sequence encoding flag tag sequence

<400> 11
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